

Amendment and Response

Applicant: Zheng, Guo-Hua

Serial No.: 10/817,643

Filed: April 2, 2004

Attorney Docket No.: CGL02/0474US01

Title: DIETARY FIBER CONTAINING MATERIALS COMPRISING LOW MOLECULAR WEIGHT GLUCAN

IN THE CLAIMS

This listing of claims replaces all prior versions and listing of claims in the application:

1. (Currently Amended) A dietary fiber composition isolated from a cereal grain containing β -glucan, comprising: a β -glucan composition having a weight average molecular weight ranging from about 50 kDa to about 250 kDa, wherein a 1% mixture by weight of said dietary fiber composition and water is ~~highly~~-stable and has a viscosity of about 1500 cps or less, and wherein the dietary fiber containing material has a ~~neutral, non-lubricious mouthfeel~~protein content of from about 1% to about 3% by weight.
2. (Cancelled)
3. (Previously Presented) A dietary fiber composition according to claim 1, wherein said β -glucan composition comprises at least 30% of the dietary fiber composition by weight.
4. (Previously Presented) A dietary fiber composition according to claim 2, wherein said β -glucan composition comprises at least 40% of the dietary fiber composition by weight.
5. (Previously Presented) A dietary fiber composition according to claim 3, wherein said β -glucan composition comprises at least 70% of the dietary fiber composition by weight.

Claims 6-9. (Cancelled)

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10. (Previously Presented) A dietary fiber composition according to claim 6, wherein the weight average molecular weight of the β -glucan composition ranges from about 100 kDa to about 250 kDa.
11. (Cancelled)
12. (Original) A dietary fiber composition according to claim 1, wherein the viscosity is about 100 cps or less.
13. (Original) A dietary fiber composition according to claim 12, wherein the viscosity is about 60 cps or less.
14. (Original) A dietary fiber composition according to claim 13, wherein the viscosity is about 5 or less.
15. (Original) A dietary fiber composition according to claim 1, wherein said dietary fiber composition has a fat content of about 2% or less.
16. (Previously Presented) A dietary fiber composition according to claim 1, wherein the composition is incorporated into a food product.
17. (Previously Presented) A dietary fiber composition according to claim 16, wherein the food product is a food product selected from the group consisting of baked goods, cereal, extruded snacks, meat substitutes, bars, salad dressings, soup, sauces, yogurt, frozen desserts, refrigerated and frozen doughs, and confections.

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18. (Previously Presented) A dietary fiber composition according to claim 17, wherein the food product is a baked good selected from the group consisting of breads, rolls, buns, corn bread, quick breads, doughnuts, muffins, bagels, flatbreads, pancakes, waffles, cookies, cakes, pastries, croissants, scones, biscuits, crackers, pretzels, tortillas, taco shells, pasta, pie crusts, and pizza crusts.
19. (Original) A dietary fiber composition according to claim 18, wherein the baked good is a white bread further comprising bread flour, all-purpose shortening, sugar, salt, calcium sulfate, dough conditioner, yeast, water and wheat gluten.
20. (Currently Amended) A dietary fiber composition according to claim 17, wherein the food ~~or beverage~~ product is a bar selected from the group consisting of meal replacement bars, energy bars, high protein bars, granola bars, unfilled cereal bars, and filled cereal bars.
21. (Original) A dietary fiber composition according to claim 20, wherein the bar is a meal replacement bar further comprising soy protein, calcium caseinate, whey protein concentrate, vitamin and mineral premix, salt, high fructose corn syrup, high maltose corn syrup, honey, canola oil, soybean oil, and water.
22. (Previously Presented) A dietary fiber composition according to claim 16, wherein the food product is a soup further comprising water, chicken broth, maltodextrin, soup base, modified food starch, whey protein concentrate, soybean salad oil, mono- and diglycerides, and water.

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23. (Previously Presented) A dietary fiber composition according to claim 16, wherein the food product is a yogurt, further comprising liquid sucrose, and high fructose corn syrup.
24. (Withdrawn – non-elected species) A dietary fiber composition according to claim 16, wherein the food or beverage product is a beverage product chosen from juice, juice drinks, milk, milk drinks, meal replacement beverages, diet and weight control beverages, powdered drink mixes, dairy-based drinks, dairy and non-dairy creamers, soy-based and rice-based beverages, energy and sports drinks, high-protein drinks, carbonated drinks, gel drinks, water and near water, tea-based beverages, coffee-based beverages, fruit and vegetable-based drinks, and smoothies.
25. (Withdrawn – non-elected species) A dietary fiber composition according to claim 24, wherein the food product is a juice drink further comprising fruit juice concentrate, high intensity sweeteners, acidulant, and water.

Claims 26-31 (Cancelled)

32. (Currently Amended) A composition, comprising: a β -glucan composition in amount sufficient to lower LDL-C, wherein said β -glucan composition comprises a β -glucan compound having a weight average molecular weight less than or equal to about 200 kDa and wherein said β -glucan composition has a viscosity less than or equal to about 100 cps, and a 1% mixture by weight of said dietary fiber composition and water is highly stable and has a viscosity of about 1500 cps or less, and wherein the dietary fiber

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containing material has a ~~neutral, non-lubricious mouthfeel~~ protein content of from about 1% to about 3% by weight.

Claims 33-52 (Cancelled)

53. (Previously Presented) A dietary fiber composition according to claim 1, wherein said dietary fiber composition has a fat content of about 1% or less.
54. (New) A dietary fiber composition isolated from a cereal grain containing β -glucan, comprising: a β -glucan composition having a weight average molecular weight ranging from about 50 kDa to about 250 kDa, wherein a 1% mixture by weight of said dietary fiber composition and water is stable and has a viscosity of about 1500 cps or less, and wherein the dietary fiber containing material has a protein content of from about 7% to about 10% by weight.
55. (New) A composition, comprising: a β -glucan composition in amount sufficient to lower LDL-C, wherein said β -glucan composition comprises a β -glucan compound having a weight average molecular weight less than or equal to about 200 kDa and wherein said β -glucan composition has a viscosity less than or equal to about 100 cps, and a 1% mixture by weight of said dietary fiber composition and water is stable and has a viscosity of about 1500 cps or less, and wherein the dietary fiber containing material has a protein content of from about 7% to about 10% by weight.